

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STAR BRITE LIQUID ELECTRICAL TAPE (BLACK, RED, GREEN, WHITE, CLEAR.)
 IDENTIFICATION NO: #84104, 84105,84106,84107,84108,84134,84135,84136,84137,84138,84154,84155,84156,84157,84158

MANUFACTURER: STAR BRITE
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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM NO.	CHEMICAL NAME	CAS NUMBER	WT. PERCENT RANGE
01	EPOXY CYCLOHEXYL METHYL CARBOXYLATE	2386-87-0	5%
02	DIETHYLENE GLYCOL DIBENZOATE	120-55-8	8%
03	VINYL CHLORIDE	900-22-9	23%
04	METHYL BENZENE	108-88-3	15%
05	ACETONE	67-64-1	5%
06	2-BUTANONE	78-93-3	40%

----- EXPOSURE LIMITS -----

ITEM NO.	ACGIH		OSHA	PEL- CEILING	COMPANY TLV-TWA	SKIN
	TLV-TWA	TLV-STEL				
01	N.A	N.A.	N.A.	N.A.		NO
02	N.E.	N.E.	N.E.	N.E.		YES
03	750PPM	1000PPM	N.E.	N.E.		NO
04	100 PPM	150 PPM	N.A.	N.A.		NO
05	N.A.	N.A.	N.A.	N.A.		NO
06	200 PPM	300 PPM	200 PPM	N.A.		YES

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPORS OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED, GET MEDICAL ATTENTION IMMEDIATELY. IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTIONASPIRATION OF THIS MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMNITIS WHICH CAN BE FATAL.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: IRRITATION. SYMPTOMS ARE TEARING, REDNESS AND DISCOMFORT. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. CAUSES SEVERE IRRITATION, EXPERIENCED AS DISCOMFORT OR PAIN, EXCESS BLINKING AND TEAR PRODUCTION, WITH MARKED EXCESS REDNESS AND SWELLING OF THE CONJUNCTIVE. SEVERELY IRRITATING. IF NOT REMOVED PROMPTLY, WILL INJURE EYE TISSUE WHICH MAY RESULT IN PERMANENT DAMAGE.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: IRRITATION. CAN CAUSE DEFATTING OF SKIN WHICH MAY LEAD TO DERMATITIS. TOXIC BY ABSORPTION THROUGH SKIN WITH SAME EFFECTS AS SHOWN BY INHALATION. PROLONGED EXPOSURE MAY CAUSE A SKIN SENSITIZATION REACTION IN SUSCEPTIBLE INDIVIDUALS. BRIEF CONTACT MAY CAUSE SLIGHT IRRITATION WITH ITCHING AND LOCAL REDNESS.

EFFECTS OF OVEREXPOSURE - INHALATION: IRRITATION TO NOSE AND THROAT. EXTENDED OR REPEATED EXPOSURE TO CONCENTRATIONS ABOVE THE RECOMMENDED EXPOSURE LIMITS MAY CAUSE BRAIN OR NERVOUS SYSTEM DEPRESSION, WITH SYMPTOMS SUCH AS DIZZINESS, HEADACHE. IF CONTINUED INDEFINITELY, LOSS OF CONSCIOUSNESS, LIVER AND KIDNEY DAMAGE.

PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. EXCESSIVE INHALATION OF VAPORS CAN CAUSE RESPIRATORY IRRITATION, DIZZINESS, HEADACHE, NAUSEA AND ASPHYXIATION. USE WITH CAUTION.371. DUE TO ITS LOW VAPOR PRESSURE, THE INHALATION EXPOSURE HAZARD POTENTIAL IS REGARDED TO BE LOW. HOWEVER IF THE PRODUCT IS HEATED, MISTED OR SPRAYED, CONCENTRATIONS ABOVE THE RECOMMENDED LEVELS MAY BE REACHED AND MUCUSE MEMBRANES AND UPPER RESPIRATORY IRRITATIONS MAY RESULT.

EFFECTS OF OVEREXPOSURE - INGESTION: MAY CAUSE MOUTH, THROAT, ESOPHAGUS AND STOMACH IRRITATION, NAUSEA, VOMITING AND DIARRHEA. IF INGESTED DO NOT INDUCE VOMITING, KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. MODERATELY TOXIC. MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION. ASPIRATION OF THIS MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, INHALATION, INGESTION, EYE CONTACT.

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IMMEDIATELY. RINSE WITH WATER FOR 15 MINUTES.

FIRST AID - SKIN CONTACT: WASH WITH SOAP AND WATER IMMEDIATELY. WASH AFFECTED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. CONSULT A PHYSICIAN IF IRRITATION PERSISTS. IMMEDIATELY REMOVE CONTAMINATED CLOTHING INCLUDING SHOES. LAUNDRY CLOTHING BEFORE REUSE: DO NOT RE-USE LEATHER OR ABSORBANT SHOES. WASH SKIN WITH MILD SOAP AND WATER; APPLY A GOOD QUALITY SKIN CREAM. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN.

FIRST AID - INHALATION: IF AFFECTED BY INHALATION OF VAPORS OR SPRAY MIST, REMOVE TO FRESH AIR. REMOVE VICTIM TO FRESH AIR IMMEDIATELY. IF COUGHING, DIFFICULT BREATHING OR ANY OTHER RESPIRATORY SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION AT ONCE. REMOVE TO FRESH AIR IF DIFFICULTY IN BREATHING.

FIRST AID - INGESTION: IF SWALLOWED, GET MEDICAL ATTENTION IMMEDIATELY!! IF INGESTED DO NOT INDUCE VOMITING. KEEP PERSON WARM AND QUIET, AND GET MEDICAL ATTENTION. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. SEEK MEDICAL ATTENTION.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 60^B F
(SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT:	0.3%
UPPER EXPLOSIVE LIMIT:	11.5%

AUTOIGNITION TEMPERATURE:

EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: VAPORS MAY CAUSE FLASH FIRE. KEEP CONTAINER TIGHTLY CLOSED AND ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND FLAME. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT SPARKS AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND, COLLECT IN LOW AREAS OR MAY IGNITE AT DISTANT LOCATION. DO NOT WELD ON OR NEAR CONTAINER, EVEN WHEN EMPTY. DECOMPOSITION BY BURNING IN OPEN FLAME MAY YIELD TOXIC HYDROGEN CHLORIDE GAS AND COMBUSTION BY-PRODUCTS. WATER AND FOAM MAY CAUSE FROTHING.

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE USED TO REDUCE RATE OF BURNING AND FOR COOLING CONTAINERS. FIRE FIGHTERS AND OTHERS EXPOSED TO VAPORS OR PRODUCTS OF COMBUSTION SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS. DURING EMERGENCY CONDITIONS, DECOMPOSITION PRODUCTS CAN CAUSE HEALTH HAZARD. USE SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE SHIELD OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE; PRESSURE MODE. BURNING WILL PRODUCE TOXIC FUMES. WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL TURN-OUT GEAR TO FIGHT FIRE. DO NOT DIRECT A SOLID STREAM OF WATER OR FOAM INTO HOT, BURNING POOLS. THIS MAY CAUSE FROTHING AND INCREASE FIRE INTENSITY. USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA. ABSORB SPILL WITH AN ABSORBENT MATERIAL SUCH AS SAWDUST, VERMICULITE OR SAND AND PLACE MATERIAL INTO A CLOSED CONTAINER. IF LARGE SPILL, DIKE AREA TO PREVENT THIS MATERIAL FROM ENTERING WATER SYSTEMS OR SEWERS. WEAR PROTECTIVE EQUIPMENT DURING CLEANUP. ELIMINATE ALL SOURCES OF IGNITION. CONTAIN SPILL AND ABSORB WITH ABSORBENT MATERIAL SUCH AS SAND. SHOVEL INTO DRUMS OR OTHER SUITABLE CONTAINERS USING NON-SPARKING TOOLS. NOTIFY APPROPRIATE AUTHORITIES IF SPILL ENTERS ENVIRONMENT. COLLECT FOR DISPOSAL. AVOID RUNOFF TO SEWERS OR WATERWAYS. WEAR SUITABLE PROTECTIVE EQUIPMENT. VACUUM WITH H.E.P.A. FILTER OR USE WET CLEAN UP TECHNIQUE TO AVOID DUSTING. KEEP RECOVERED MATERIAL ENCLOSED.

SECTION 7 - HANDLING AND STORAGE

HANDLING: AVOID PROLONGED OR REPEATED INHALATION OF HEATED VAPORS OR SPRAY MISTS. KEEP AWAY FROM HEAT OR OPEN FLAME. AVOID PROLONGED OR REPEATED SKIN CONTACT. WARNING! CAUSES EYE DAMAGE. MAY CAUSE ALLERGIC SKIN REACTION. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. HARMFUL IF SWALLOWED OR INHALED. AVOID BREATHING DUST. USE WITH ADEQUATE VENTILATION. WARNING !!! HARMFUL IF ABSORBED THROUGH THE SKIN. DO NOT SWALLOW. CAUSES EYE AND SKIN IRRITATION. KEEP CONTAINERS TIGHTLY CLOSED. NO SMOKING OR EATING IN THE HANDLING AREAS. WASH THOROUGHLY AFTER HANDLING.

STORAGE: KEEP AWAY FROM EXCESSIVE HEAT, SPARKS AND OPEN FLAME. KEEP CLOSURES TIGHT WHEN NOT IN USE. KEEP CONTAINERS UPRIGHT TO PREVENT LEAKAGE. STORE IN COOL, DRY PLACE. PROTECT FROM HEAT AND FLAME. STORE DRUM OUT OF INTENSE SUNLIGHT AND AWAY FROM HEAT.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: EFFICIENT LOCAL EXHAUST VENTILATION IS REQUIRED.

RESPIRATORY PROTECTION: DO NOT BREATHE VAPORS. WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) DURING USE OF THIS PRODUCT UNTIL VAPORS ARE EXHAUSTED. UNLESS AIR MONITORING DEMONSTRATES VAPOR LEVELS ARE BELOW APPLICABLE LIMITS. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. OBSERVE STANDARD 29CFR 1910.134. A CANISTER TYPE RESPIRATOR MUST BE WORN TO PREVENT THE INHALATION OF VAPORS OR SPRAY MISTS WHEN THE TLV OR PEL IS EXCEEDED. APPROVED NIOSH/MSHA (NUISANCE DUST) IS NECESSARY UNDER CERTAIN CONDITIONS WHERE AIRBORNE CONTAMINANTS MAY EXCEED EXPOSURE LIMITS. USE SUPPLIED AIR RESPIRATORY PROTECTION IN CONFINED OR ENCLOSED SPACES IF NEEDED.

SKIN PROTECTION: CHEMICAL RESISTANT NITRILE, NEOPRENE OR RUBBER GLOVES REQUIRED. RUBBER OR PLASTIC GLOVES.

EYE PROTECTION: CHEMICAL GOGGLES OR FACE SHIELD RECOMMENDED. SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT. EYE WASH STATION AND SAFETY SHOWER SHOULD BE AVAILABLE. READILY AVAILABLE EYE WASH FOUNTAIN, SAFETY SHOWER. REMOVE AND SEPARATELY LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN DESIGNATED AREAS ONLY.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE:	131 - 449 ^B F	VAPOR DENSITY:	IS HEAVIER THAN AIR
ODOR:	PETROLEUM	ODOR THRESHOLD:	
APPEARANCE:	LIQUID PAINT	EVAPORATION RATE:	IS FASTER THAN ETHER
SOLUBILITY IN H ₂ O:	NEGLIGIBLE		
FREEZE POINT:		SPECIFIC GRAVITY:	.935
VAPOR PRESSURE:		pH @ 0.0%:	
PHYSICAL STATE:	LIQUID	VISCOSITY :	1200-1600 cps
COEFFICIENT OF WATER/OIL DISTRIBUTION			

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: VERY HIGH TEMPERATURE AND OPEN FLAMES

INCOMPATIBILITY: MATERIALS TO AVOID: AMINES, ACIDS, AND STRONG BASES, STRONG ALKALIS. HIGH TEMPERATURES IN THE PRESENCE OF STRONG BASES. ACIDS. STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING CAN PRODUCE THE FOLLOWING COMBUSTION PRODUCTS: CARBON MONOXIDE AND/OR CARBON MONOXIDE. CARBON MONOXIDE IS HIGHLY TOXIC IF INHALED; CARBON DIOXIDE IN SUFFICIENT CONCENTRATIONS CAN ACT AS AN ASPHYXIANT. HYDROGEN CHLORIDE, CARBON MONOXIDE, CARBON DIOXIDE AND ACETIC ACID. CARBON DIOXIDE, CARBON MONOXIDE, VARIOUS HYDROCARBONS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

SECTION 11 - TOXICOLOGICAL PROPERTIES

NO PRODUCT OR COMPONENT TOXICOLOGICAL INFORMATION IS AVAILABLE.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: NO INFORMATION

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: OBEY RELEVANT LOCAL, STATE AND FEDERAL LAWS. PRODUCT IS HIGHLY TOXIC TO FISH. DO NOT CONTAMINATE ANY LAKES, STREAMS, PONDS, UNDERGROUND WATER SUPPLY. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT TO SEWER SYSTEM WITHOUT PRIOR NOTICE. DILUTE WITH AN INERT SOLVENT AND INCINERATE IN A FURNACE WHERE PERMITTED UNDER APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS. PREFERRED DISPOSAL METHODS WOULD BE BY SUPERVISED INCINERATION AT AN APPROVED CHEMICAL DISPOSAL AREA UNDER FEDERAL, STATE AND LOCAL AUTHORITY. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: PAINT

DOT TECHNICAL NAME: FLAMMABLE LIQUID

DOT HAZARD CLASS: CLASS III

HAZARD SUBCLASS:

DOT UN/NA NUMBER UN 1263 PACKING GROUP: PGII RESP. GUIDE PAGE: 26

SECTION 15 - REGULATORY INFORMATION

THIS PRODUCT CONTAINS THE FOLLOWING NON-HAZARDOUS COMPONENTS:

----- CHEMICAL NAME-----	CAS NUMBER	WT/WT %
STYRENE-ACRYLATE COPOLYMER	68240-06-2	0.7%

U. S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE 11/22/99

VOTATILE ORGANIC COMPOUNDS (VOCS): 5.43 LBS/GAL. 651 GRAMS/LTR

LEGEND: N.A. - NOT AVAILABLE N.E. - NOT ESTABLISHED
 N.D. - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.